Acronal® 3630
Adhesive Raw Material

Chemical nature
APEO-free aqueous dispersion of an acrylate copolymer containing carboxyl groups.

Properties

Physical form
Liquid, dispersion

Technical data

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid content</td>
<td>DIN EN ISO 3251 ~ 60 %</td>
</tr>
<tr>
<td>pH value</td>
<td>DIN ISO 976 6.0 – 7.5</td>
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<tr>
<td>Viscosity</td>
<td>DIN EN ISO 3219 50 – 150 mPa·s</td>
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<tr>
<td>Glass transition temperature of film</td>
<td>−35 °C</td>
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</tbody>
</table>
Application

Advantages
Acronal® 3630 is used in the manufacturing of adhesives for self-adhesive articles, especially for single-, double-sided and transfer tapes.

Dried films of Acronal® 3630 feature excellent adhesive properties on polar and unpolar rigid and porous surfaces, combined with good cohesion power, even at low temperatures, and are insensitive to water stress.

The viscosity of Acronal® 3630 can be increased significantly by raising the pH carefully up to 8.5.

Acronal® 3630 exhibits an excellent drying behavior allowing to produce articles with high coating weights.

Applications
Compatibility is given with other polymer dispersions, natural and synthetic tackifiers and plastizisers (e.g. Loxanol® PL 5060 or Plastomol® DNA) as well as thickening agents (e.g. Rheovis® VP 1231 or Rheovis® AS 1125) and wetting agents (e.g. Lumiten® I-SC).

Commercially available antifoaming agents are suitable for suppressing foam. Usually the addition of 0.05 – 0.2 % of the antifoaming agent is sufficient.

We recommend adding a preservative to adhesives based on Acronal® 3630 to protect them from microbial attack.

The suitability of such additives must be verified and monitored in trials.

Adhesives based on Acronal® 3630 can be applied using commonly available application devices such as flat blade, Meyer bar, air brush, reverse roll, reverse gravure, nozzle and curtain coater.

Manufacturers must carefully carry out their own experimentation when developing pressure-sensitive adhesives based on Acronal® 3630, as there is a host of factors in production and processing that we cannot cover exhaustively in our trials which can influence compatibility with other components of the adhesives, their wetting of and adhesion to different substrates etc.